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     1986:410444 HCAPLUS
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     105:10444
TI
    Magnesium alloys for die-casting
IN
     Hirasawa, Yoshikazu; Oki, Shujiro; Hashimoto, Ikuji
PA
    Ube Industries, Ltd., Japan
SO
    Jpn. Kokai Tokkyo Koho, 3 pp.
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    Japanese
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    PATENT NO.
                     KIND DATE
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    JP 61003863
                    A2 19860109
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                                          JP 1984-121901
                                                           19840615
    JP 03017890
                     B4 19910311
PRAI JP 1984-121901
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    The Mg alloys contain Ca 0.2-4, Al 1-6,
    Si 0.5-1.5, Mn 0.15-0.5, Zn \leq 0.3, Cu \leq 0.06, Ni
    \leq0.03, and impurities \leq0.3%. Addition of Ca to
    Mg-base alloy containing Si ≥0.5% increases the
    creep-rupture resistance. Thus, die-cast Mg alloy (containing
    Ca 0.52, Al 3.9-4.2, Si 0.8-1.3, and Mn
    0.24-0.28%) showed tensile strength 21.8 kg/mm2 and elongation 8.0%. The
    rupture time was 3.7 h with elongation 11.3% in creep-rupture tests at
    250° with tensile stress 5.5 kg/mm2.
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1-6 Al